

Claims

1. Wiper arm (10) of the type containing an arm body that extends longitudinally from its rear driving end (12) towards its front end (14) that bears a wiper arm, and of the type in which, in cross section, at least a section of the of the arm body has an upturned U-shaped cross-section defined by two wings (18, 20) mutually connected by an upper back (22) extending towards the surface to be wiped, consisting of a downstream wing (18) remaining substantially perpendicular to the back (22) and an inclined upstream wing (20) forming an acute angle (A) relative to a median plane (V) parallel to the downstream wing (18) to form a n aerodynamic deflector integrated in the wiper arm which, by the action of a relative downwind direction (F), tends to urge the wiper arm (10) towards the surface to be wiped, characterized by the upstream wing (20) presents a surface, the curve of which varies progressively from one end to the other of the wiper arm body, and of which the value of the acute angle (A) ranges between 30° and 45°.

2. Wiper arm according to claim 1, characterized by the upstream wing presenting a substantially planar surface.

3. Wiper arm according to one of the preceding claims, characterized by the value of the acute angle (A) ranging between 32° and 35°.

4. Wiper arm according to one of the preceding claims, characterized by the height (H1) of the downstream wing (18) being lower than the height (H2) of the upstream wing (20), and that the ration (H1/H2) of the two heights ranges between 0.65 and 0.85.

5. Wiper arm according to one of the preceding claims, characterized by, in cross-section, the value of the angle (B) between the straight line (D) passing by the lower edges (28, 24) of the downstream (18) and upstream

(20) wings and the tangent to the upper back (22) at the level of the median plane (V), ranging between 7° and 16° .

6. Wiper arm according to one of the preceding claims,
characterized by at least one of the wings, notably the upstream wing (20),
5 containing a longitudinal reinforcement rib (34).
7. Wiper arm according to one of the preceding claims,
characterized by at least one of the wings, notably the downstream wing (18),
containing an interior reinforcement fold (36).
8. Wiper arm according to one of the preceding claims,
10 characterized by the inclined acute angle (A) of the upstream wing (20) varying
progressively in such a way that the two wings (18, 20) are parallel at the rear and
front ends of the wiper arm body.
9. Wiper arm according to one of the preceding claims,
characterized by being produced in one piece of serrated, bent sheet metal.

DOCUMENTS DE L'EXAMINATEUR